

3 - Ores (powder form) Phosphate Rocks and Bauxites

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

3(3)- Ores (powder form) Phosphate Rocks and Bauxites

(Concentrations are in mass fractions, in %.)

SRM Description	Unit Size	Aluminum oxide (Al ₂ O ₃)	Barium oxide (BaO)	Beryllium (Be)	Cadmium oxide (CdO)	Calcium oxide (CaO)	Carbon dioxide (CO ₂)	Cerium (Ce)	Chromium oxide (Cr ₂ O ₃)	Cobalt (Co)	Fluorine (F)	Gallium oxide (Ga ₂ O ₃)	Iron oxide (Fe ₂ O ₃)	Lithium oxide (Li ₂ O)	Loss on ignition-See certificate for conditions	Magnesium oxide (MgO)
69b Bauxite (Arkansas)	60 g	48.8	(0.008)			0.13		(0.024)	0.011	(0.0001)					27.2	0.085
120c Phosphate Rock (Florida)	90 g	1.30			0.0010	48.02	3.27				3.82		1.08			0.32
600 Bauxite, Australian-Darling Range	90 g	40.0				0.22			0.024				17.0		20.5	0.05
694 Phosphate Rock, Western	90 g	1.8			0.015	43.6			(0.10)		3.2		0.79			0.33
696 Bauxite, Surinam	60 g	54.5	(0.004)			0.018		(0.0041)	0.047	(0.00009)			8.70		29.9	0.012
697 Bauxite, Dominican	60 g	45.8	(0.015)			0.71		(0.069)	0.100	(0.0013)			20.0		22.1	0.18
698 Bauxite, Jamaican	60 g	48.2	(0.008)			0.62		(0.030)	0.080	(0.0045)			19.6		27.3	0.058

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SRM Description	Unit Size	Manganese oxide (MnO)	Phosphorus pentoxide (P ₂ O ₅)	Potassium oxide (K ₂ O)	Silicon dioxide (SiO ₂)	Sodium oxide (Na ₂ O)	Sulfur trioxide (SO ₃)	Titanium dioxide (TiO ₂)	Uranium (U)	Uranium Oxide (U ₃ O ₈)	Vanadium pentoxide (V ₂ O ₅)	Zinc oxide (ZnO)	Zirconium dioxide (ZrO ₂)
69b Bauxite (Arkansas)	60 g	0.110	0.118	0.068	13.43	(0.025)	0.551	1.90			0.028	0.0035	0.29
120c Phosphate Rock (Florida)	90 g	0.027	33.34	0.147	5.5	0.52		0.103		0.0135	0.016		
600 Bauxite, Australian-Darling Range	90 g	0.013	0.039	0.23	20.3	0.022	0.155	1.31			0.060	0.003	0.060
694 Phosphate Rock, Western	90 g	0.0116	30.2	0.51	11.2	0.86		(0.11)	0.01414		0.31	(0.19)	
696 Bauxite, Surinam	60 g	0.004	0.050	0.009	3.79	(0.007)	0.150	2.64			0.072	0.0014	0.14
697 Bauxite, Dominican	60 g	0.41	0.97	0.062	6.81	(0.036)	0.0770	2.52			0.063	0.037	0.065
698 Bauxite, Jamaican	60 g	0.38	0.37	0.010	0.69	(0.015)	0.143	2.38			0.064	0.029	0.061

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